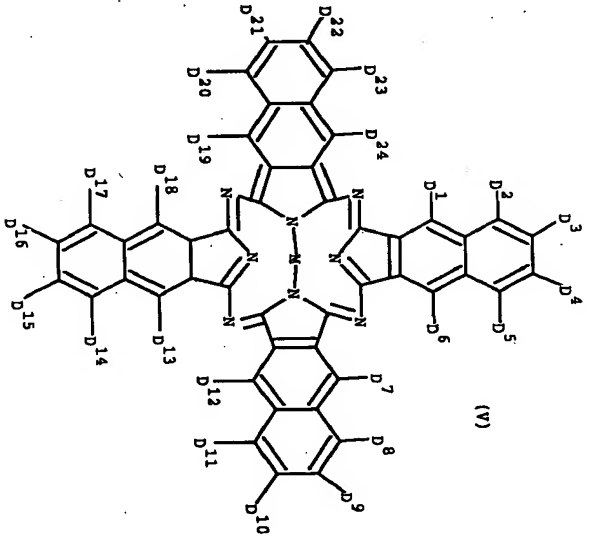
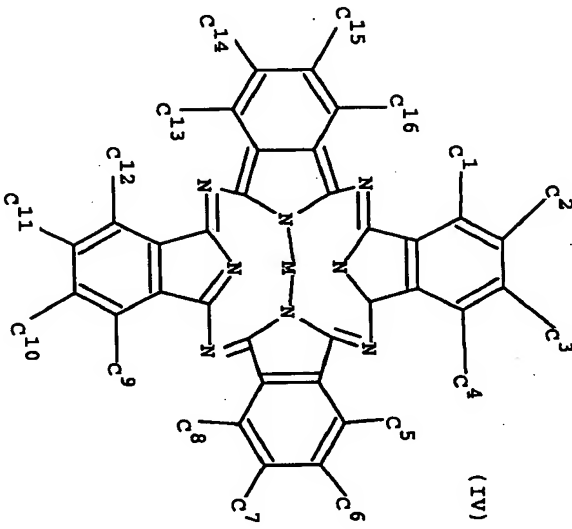


<p>96-205767/21 A97 E24 G02 (A14) MITK 93.09.10 MITSUI TOATSU CHEM INC *JP 08073792-A 94.07.05 94JP-153777(+93JP-226000) (96.03.19) C09D 11/00, 11/02, 11/10 Ink compsn. used for printing near IR light inspection - including phthalocyanine cpd., naphthalocyanine cpd., aminium salt and anthraquinone cpd. C96-065555 Addnl. Data: 94.09.01 94JP-208605, 93.12.10 93JP-310767</p>	<p>A(12-W7D) E(22-C, 22-C3, 23-B, 25-E) G(2-A4A, 2-A4B)</p>
<p>The ink comprises at least one of a near infrared ray absorber of metal complex of formula (I), (II) and (III), a phthalocyanine cpd. of formula (IV), a naphthalocyanine cpd. of formula (V), aminium salt of formula (VI) and anthraquinone cpd. of formula (VII), at least one of an acrylic resin (excepting for phthalocyanine cpd.), hydrocarbon resin, a copolymer of acrylic cpd. and hydrocarbon as a binder resin;</p>	<div data-bbox="1128 1255 1380 1890"> <p>(I)</p> </div> <div data-bbox="982 1438 1079 1680"> <p>(II)</p> </div> <div data-bbox="828 1365 958 1785"> <p>(III)</p> </div>

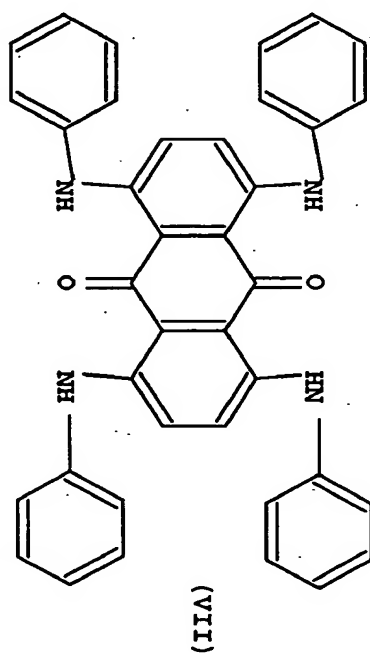
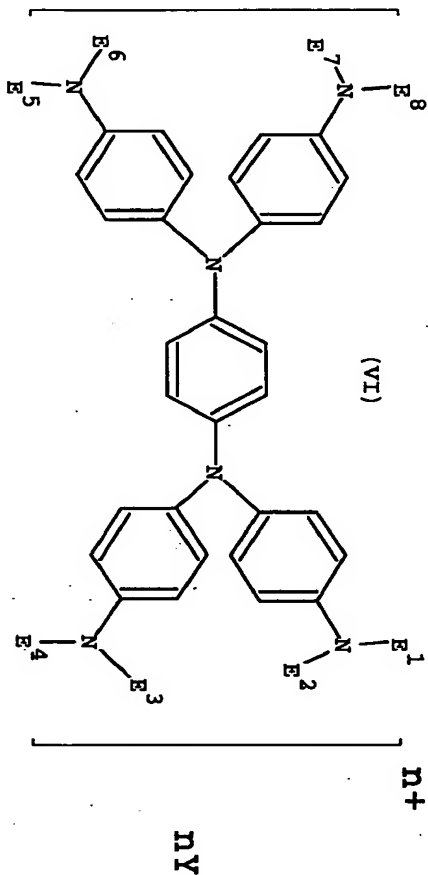
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A¹-A⁸ = H, halogen, NO₃, CN, SCN, NCO, acyl, carbamoyl, alkylamino carbonyl, alkoxy carbonyl, aryloxy carbonyl, alkyl, aryl, aryloxy, alkylthio, arylthio, alkylamino, arylamino; B¹-B⁴ = H, CN, acyl, carbamoyl, alkylamino carbonyl, alkoxy carbonyl, aryloxy carbonyl, alkyl, aryl; R¹-R⁴ = alkyl, aryl, M = divalent metal, tri, tetravalent substituted metal, oxy metal; C¹-C¹⁶, D¹-D²⁴ = H, halogen, alkyl, alkoxy, aryl, aryloxy, alkylthio, metal, oxy metal;

JP 08073792-A+1/2

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arylthio, alkylamino, arylamide, amide;
 $E^1-E^8 = H, alkyl$;

$Y = \text{halogen, SbF}_6, ClO_4, BF_4, NO_3$;

$n = 1, 2$.

The above hydrocarbon portion may be substituted.

USE

The ink is used for printing a near infrared ray inspection material including banking material, pass, tickets, prepaid card, an identity card etc.

ADVANTAGE

The ink has a high light stability, and the printed matter by the ink shows high contrast by the difference of reflection in near infrared ray region between the printed portion and not printed portion.

PREFERRED COMPOSITION

The ink comprises UV absorber, a singlet oxygen quencher, a radical trapping agent or a solvent.

(CM)

(16pp011DwgNo.0/0)

JP 08073792-A/3

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